Table II Identification of Achievable Performance Standards

Source Category: Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters

	Rule/Measure				
Rule/Measure	Santa Barbara 342	Yolo-Solano 2.27	Determination		
Exemptions	1. Boilers used by electric utilities to generate electricity 2. Process heaters, kilns, and furnaces where the products of combustion come into direct contact with the material to be heated 3. Waste heat recovery boilers that are used to recover heat from the exhaust of combustion turbines or reciprocating internal combustion engines 4. Equipment that does not require a permit under the provisions of SB Rule 202 5. Boilers while forced to burn nongaseous fuel during times of natural gas curtailment. This exemption shall not exceed 168 cumulative hours of operation per calendar year excluding equipment testing time not exceeding 24 hours per calendar year. 6. Units with permitted annual heat input of less than 9,000 million Btu which are either (a) operated in a manner that maintains stackgas oxygen concentrations at less than 3.00 percent by volume on a dry basis or (b)	1. Boilers used by electric utilities to generate electricity 2. Process heaters used less than 250 hours per year 3. Dryers in which a material is being dried while in direct contact with the products of combustion 4. Cement and lime kilns, glass melting furnaces and smelters 5. Waste heat recovery boilers that are used to recover heat from the exhaust of combustion turbines 6. If gas is unavailable for purchase, units which normally burn only gas shall comply with a NOx emission limit not to exceed 0.6 lbs/mmbtu when burning nongaseous fuel according to the following equation: (lbs/mmbtu NOx emission rate)x(hours of operation per calendar year) < 36.12 7. Units with annual heat input of less than 9,000 million Btu for each of the three previous calendar years	1. Boilers used by electric utilities to generate electricity 2. Dryers in which a material is being dried while in direct contact with the products of combustion 3. Waste heat recovery boilers that are used to recover heat from the exhaust of combustion turbines 4. Cement and lime kilns, glass melting furnaces and smelters 5. Units which normally burn only gas shall comply with a 150 ppm NOx emission limit when burning nongaseous fuel, if gas is unavailable for purchase. This exemption shall not exceed 168 cumulative hours of operation per calendar year excluding equipment testing time not exceeding 48 hours per calendar year. 6. Units with annual heat input of less than 9,000 million Btu for each of the three previous calendar years which are either (a) operated in a manner that maintains stack-gas oxygen concentrations at less than or		

PRELIMINARY DRAFT

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Rule/Measure	Rule/Measure					
	Santa Barbara 342	Yolo-Solano 2.27	Determination			
		tuned at least once every 12 months	oygen trim system set at 3.00 \pm 0.15 percent oxygen by volume on a dry basis or (c) tuned at least once every 12 months			
Applicability	and process heaters with rated heat inputs greater than or equal to 5 million Btu per hour used in all industrial, institutional, and commercial	and process heaters with rated heat inputs greater than or equal to 5 million Btu per hour used in all industrial, institutional, and commercial	Boilers, steam generators, and process heaters with rated heat inputs greater than or equal to 5 million Btu per hour used in all industrial, institutional, and commercial operations			

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Rule/Measure	Rule/Measure				
	Santa Barbara 342	Yolo-Solano 2.27	Determination		
Comments	Most districts' large boiler rules require the same performance standards. This rule was chosen because it has the fewest exemptions.	rules require the same performance standards. This rule was chosen because it has few exemptions. Pursuant to H & S section 40728.5(c), Yolo-Solano is not required to perform an assessment of the socioeconomic impacts of the adoption, amendment, or	increased operating cost associated with emission control equipment. If combustion equipment is operated with lower excess air after, or instead of, retrofitting control		

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